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DATE: Tuesday, August 10, 2004

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<i>DB=PGPB, USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L19	L14 and device	1 ←
<input type="checkbox"/>	L18	l7 and immobilization adj island	0
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L17	l7 and (biophilic or biophobic)	0
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L16	L14 and terminal adj amino	1
<input type="checkbox"/>	L15	L14 and terminal adj reactive	1
<input type="checkbox"/>	(L14)	L13 and immobilization adj island	1
<input type="checkbox"/>	L13	L12 and biophilic	1
<input type="checkbox"/>	L12	20040023414.pn. and biophobic	1
<input type="checkbox"/>	L11	20040023414.pn. and bond	1
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L10	20040023414.pn.	0
<input type="checkbox"/>	L9	20040023414.pn. and bound	0
<input type="checkbox"/>	L8	20040023414.pn. and bond	0
<input type="checkbox"/>	(L7)	6368877.pn.	1
<input type="checkbox"/>	L6	6368877.pn. and device	0 ←
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L5	20040023414.pn. and device	1 ←
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L4	dendrimer and nanocrystallite	3
<input type="checkbox"/>	L3	L2 and dendrimer	89
<input type="checkbox"/>	L2	triethylene adj glycol	25495
<input type="checkbox"/>	L1	6368877.pn.	1

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L19: Entry 1 of 1

File: PGPB

Feb 5, 2004

DOCUMENT-IDENTIFIER: US 20040023414 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

Pre-Grant Publication (PGPub) Document Number:20040023414

CLAIMS:

1. A device comprising: a solid support; and an array of isolated regions on the support, the array comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal amino acid in a preselected, reproducible pattern.
2. The device of claim 1 further comprising a background region surrounding the isolated regions, wherein the peptides are not bound to the background region.
3. The device of claim 2 wherein the background region comprises an inert compound.
4. A device comprising: a solid support; and an isolated region comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern.
5. The device of claim 4 comprising a plurality of isolated regions of a self-assembled monolayer, the plurality of regions defining an ordered array on the support.
6. A device comprising: a solid support; an isolated region comprising a self-assembled monolayer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern; and a background region surrounding the isolated region and comprising a compound which can react with the support.
7. A device for immobilizing at least one biological material in a specific and predetermined pattern comprising: a surface, an array of immobilization islands in a specific and predetermined pattern over the surface isolated from each other by at least one background region, the array of immobilization islands comprising a first self-assembled monolayer comprising at least one first functional group wherein the at least one first functional group is selected to biophilic, and wherein the first self-assembled monolayer comprises a monolayer of linear peptides, the at least one background region comprising a second self-assembled monolayer having a second functional group wherein the second functional group is selected to be biophobic.

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L5: Entry 1 of 1

File: PGPB

Feb 5, 2004

DOCUMENT-IDENTIFIER: US 20040023414 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

Pre-Grant Publication (PGPub) Document Number:
20040023414

CLAIMS:

1. A device comprising: a solid support; and an array of isolated regions on the support, the array comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal amino acid in a preselected, reproducible pattern. *4/2*
2. The device of claim 1 further comprising a background region surrounding the isolated regions, wherein the peptides are not bound to the background region. *new*
3. The device of claim 2 wherein the background region comprises an inert compound.
4. A device comprising: a solid support; and an isolated region comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern.
5. The device of claim 4 comprising a plurality of isolated regions of a self-assembled monolayer, the plurality of regions defining an ordered array on the support. *new*
6. A device comprising: a solid support; an isolated region comprising a self-assembled monolayer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern; and a background region surrounding the isolated region and comprising a compound which can react with the support. *4/2*
7. A device for immobilizing at least one biological material in a specific and predetermined pattern comprising: a surface, an array of immobilization islands in a specific and predetermined pattern over the surface isolated from each other by at least one background region, the array of immobilization islands comprising a first self-assembled monolayer comprising at least one first functional group wherein the at least one first functional group is selected to be biophilic, and wherein the first self-assembled monolayer comprises a monolayer of linear peptides, the at least one background region comprising a second self-assembled monolayer having a second functional group wherein the second functional group is selected to be biophobic. *4/2*

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